

- (3) Section III—Fire apparatus.
  - (a) Responsibilities.
  - (b) Inspection and maintenance of specialized equipment.
  - (c) Vehicle characteristics.
  - (d) Selecting routes.
  - (e) Operating systems.
  - (f) Special considerations.
- (4) Vehicle dynamics.
- (5) Size and weight.
- (6) Speed.
- (7) Basic control tasks.
  - (a) Steering.
  - (b) Braking.
  - (c) Shifting.
  - (d) Backing.
  - (e) Parking.
  - (f) Intersections.
- h. Unit H—Introduction to driving range and safety briefing.
- i. Unit I—Driving range.
- j. Unit J—Operator's performance evaluation.

### **H-3. Training materials**

The following may be obtained through local Training and Audiovisual Support Centers (TASC) in support of emergency vehicle training programs: Training Video Tape (TVT) 8-210, PIN 709704DA, *Defense Driving Course: Coaching the Emergency Vehicle Operator—Ambulance*. The package includes a videotape, operator workbook, instructor's guide, discussion slides, and test. Although this program is oriented toward ambulance operators, the instruction on normal and emergency vehicle operation applies to all emergency vehicles. Contact the mission proponent for additional materials or information.

## **Appendix I**

### **Mandatory Academic and Driving Tasks for Night Vision Devices**

#### **I-1. NVD academics**

As a minimum, NVD academics will cover the following topics:

- a. An introduction to NVDs (specify type or model).
- b. Awareness of the device's diminished effectiveness in rain, fog, snow, or smoke, and the debilitating effects of any bright light; such as vehicle headlights or flares.
- c. Depth perception, visual acuity, and field of vision.
- d. Illumination requirements.
- e. Speed limitations.
- f. Night vision scanning techniques.
- g. Emergency procedures while driving with NVDs.
- h. Driver or assistant driver responsibilities; crew coordination.
- i. Self-imposed stresses; that is, smoking, alcohol, or driver or crew fatigue.
- j. Care and security of the NVD. FM 21-305, TC 21-306, and TC 21-305-2 may be used to supplement NVD qualification and refresher training.

#### **I-2. NVD task list**

The following tasks will be performed in the sequence shown and under the supervision of a qualified NVD instructor:

- a. *Phase I task.* Drive vehicle without the device over a known range during daylight conditions; become comfortable with the actual road and terrain.
- b. *Phase II task.* Using headlights, drive vehicle without the NVD over the same range at night.
- c. *Phase III tasks.*
  - (1) Perform preoperation NVD system checks.
  - (2) Check for proper wear and fitting.
  - (3) Focus the device.

- (4) Perform vehicle PMCS while wearing the NVD.
- (5) Refocus the NVD immediately prior to phase IV.

*d. Phase IV tasks.*

(1) With all external and internal lights off, drive vehicle over the same range while wearing the NVD. Pay particular attention to the distance between the vehicle and familiar objects in front.

- (2) Identify road signs.
- (3) Detect route markers, if any.
- (4) Identify and negotiate ditches or other rough road conditions.
- (5) Judge distances to road junctions.
- (6) Identify the edge of the road.
- (7) Distinguish shadows from other features (that is, water puddles).

*e. Phase V tasks.*

- (1) Perform post-operation vehicle PMCS while wearing the NVD.
- (2) Perform post-operation NVD system checks.
- (3) Conduct AAR.